Please type a plue	ige + Finside this box → +	(
		•

NOV 2 9 2002 W

Sheet

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

of

1

COMPLETE IF KNOWN					
Application Number	09/878,948	Conf. No. 6459			
Filing Date	June 11, 2001				
First Named Inventor	Kenneth H. Abbott				
Group Art Unit	2173				
Examiner Name	Unknown T. H	ailu			
Attorney Docket No.	294438022US2	•			

TIC	D A	THAT	DOCT	
U.S.	$\mathbf{F}\mathbf{A}$	LENI	DCU	MENTS

4

		U.S. PATENT DOCUME	N19	
EXAMINER INITIALS	U.S. Patent Document NUMBER Kind Code (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
TH	Patent Application No. 09/724,777	Abbott et al.	11/28/00	
	Patent Application No. 09/724,799	Abbott et al.	11/28/00	
	Patent Application No. 09/724,892	Abbott et al.	11/28/00	ECEIVED
	Patent Application No. 09/724,893	Abbott et al.	11/28/00	
	Patent Application No. 09/724,894	Abbott et al.	11/28/00	DEC 0 2 2002
	Patent Application No. 09/724,902	Abbott et al.	11/28/00	nnology Center 210
	Patent Application No. 09/724,932	Abbott et al.	11/28/00	
	Patent Application No. 09/879,339	Abbott et al.	6/11/01	
	4,916,441	Gombrich	4/10/90	
	5,032,083	Friedman	7/16/91	
	5,201,034	Matsuura et al.	4/6/93	
	5,208,449	Eastman et al.	5/4/93	
	5,214,757	Mauney et al.	5/25/93	
	5,227,614	Danielson et al.	7/13/93	
	5,335,276	Thompson et al.	8/2/94	
	5,416,730	Lookofsky	5/16/95	
	5,470,233	Fruchterman et al.	11/28/95	
	5,493,692	Theimer et al.	2/20/96	
	5,544,321	Theimer et al.	8/6/96	
	5,555,376	Theimer et al.	9/10/96	
	5,559,520	Barzegar et al.	9/24/96	
	5,568,645	Morris et al.	10/22/96	
	5,601,435	Quy	2/11/97	
	5,603,054	Theimer et al.	2/11/97	
	5,611,050	Theimer et al.	3/11/97	
	5,642,303	Small et al.	6/24/97	
	5,646,629	Loomis et al.	7/8/97	
	5,719,744	Jenkins et al.	2/17/98	
	5,726,660	Purdy et al.	3/10/98	. "
	5,751,260	Nappi et al.	5/12/98	
	5,781,913	Felsenstein et al.	7/14/98	4044
	5,790,974	Tognazzini	8/4/98	

EXAMINER		DATE CONSIDERED	
Tas	desse Hantin	2-24-04	
* EXAMINER:	Initial if reference considered, whether or not criteria	is in conformance with MPEP 609.	Draw line through citation if not in
	conformance and not considered. Include copy of this form		

	/			
	·	a)		
- 1	2 (3 5005 FA		
Substitute	for fortil 1449A	PTO d		
Substitute			DIGG! 64	
	MULOKI	MAILAN	DISCLOS	SURE
	STATE	Mursoff B'	Y APPLIC	CANT
	TRAI	166		
	(use as	many snee	ets as necess	ary)

COMPLETE IF KNOWN

Application Number 09/878,948 Conf. No. 6459

Filing Date June 11, 2001

First Named Inventor Kenneth H. Abbott

Group Art Unit 2173

Examiner Name Unknown L. La Yu

Attorney Docket No. 294438022US2

Sheet 2 of 4

II S PATENT DOCUMENTS

EXAMINER INITIALS	U.S. Patent Document NUMBER Kind Code (if known)		NUMBER Kind Code of Cited Document		NUMBER Kind Code of Cited Document Document		Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
TH	5,798,733		Ethridge	8/25/98			
_	5,812,865		Theimer et al.	9/22/98	Maria de la companya		
	5,873,070		Bunte et al.	2/16/99	· · · · · · · · · · · · · · · · · · ·		
	5,878,274		Kono et al.	3/2/99			
	5,902,347		Backman et al.	5/11/99			
	5,910,799		Carpenter et al.	6/8/99	CFIVED		
	5,938,721		Dussell et al.	8/17/99			
	5,948,041		Abo et al.	9/7/99	DEC 0 2 2002		
1	5,959,611		Smailagic et al.	9/28/99			
	5,991,687		Hale et al.	11/23/99 Ton	nology Center 2100		
	6,014,638		Burge et al.	1/11/00	HIGHOR COLLEGE		
	6,047,301		Bjorklund et al.	4/4/00			
1	6,064,943		Clark, Jr. et al.	5/16/00			
	6,108,197		Janik	8/22/00			
1/	6,127,990		Zwem	8/3/00	-		

		FO	REIGN PATENT DOCUMEN	NTS		
EXAMINER INITIALS	Office	Foreign Patent Document Kind Code Number (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Т
TH	EPO	EP 0823 813A2	Kopin Corporation	2/11/98		
1	JPO	05260188	Matsushita Electric Ind. Co. Ltd.	10/8/93	Abstract Only	
	JPO	09091112	Toshiba Corp.	4/4/97	Abstract Only	
	PCT	WO 90/08361	The Scott Fetzer Company	7/26/90		
	PCT	WO 97/03434	Virtual I/O, Inc.	1/30/97		

	OTHER PRIOR ART-NON PATENT LITERATURE DOCUMENTS	
EXAMINER INITIALS []	* Include name of the author (in ord 11112 BB 1 1500), the of the which appropriate), the of the fem (5000), magazine,	
TH	"'Affective Understanding:' Modeling and Responding to User Affect," http://www.media.mit.edu/affect/AC_research/understanding.html, pp. 1-3 [Accessed 2 Oct 1998].	
	"Alps GlidePoint," http://www.alps.com/p17.html, p. 1 [Accessed 2 Oct 1998].	
	"GyroPoint Technology," http://www.gyration.com/html/gyropoint.html, pp. 1-3 [Accessed 2 Oct 1998].	
	"Haptics," http://www.ai.mit.edu/projects/handarm-haptics/haptics.html, pp. 1-2 [Accessed 2 Oct 1998].	
	"Research Areas in Affective Computing," http://www.media.mit.edu/affect/, p. 1 [Accessed 2 Oct 1998]	

EXAMINER		DATE CONSIDERED /	
	Tadem Han	2-24-04	
* EXAMINER:	Initial if reference considered, whether or not criteria		Draw line through citation if not in

<u> </u>	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			Patent and Trade		PARTMENT OF COMMERCE
La NO	ov 2 9 2002 🗒			C	OMPLETE IF KI	NOWN
Substitute for fo	ubstitus for form 1449A/PTO			Application Number	09/878,948	Conf. No. 6459
الركخ	INFORMATION DISCLOSURE			Filing Date	June 11, 2001	RECEIVED
33	MACE MENT B	SY APPLICAN	i T	First Named Inventor	Kenneth H. Abbott	
	(use as many she			Group Art Unit	2173	DFC 0.2 2002
	,			Examiner Name	Unknown T	Hailu
Sheet	3	of	4	Attorney Docket No.	294438022US2 T	Chnology Center 210

Silect	Audiney Docket 146. 294438022052 ACCITIOLOGY CENTER 2	10					
	OTHER PRIOR ART-NON PATENT LITERATURE DOCUMENTS	7					
*EXAMINER INITIALS	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume, issue number(s), publisher, city and/or country where published.	T					
TA	"Research on Affective Pattern Recognition and Modeling," http://www.media.mit.edu/affect/AC_research/recognizing.html, pp. 1-4 [Accessed 2 Oct 1998].						
	"Research on Sensing Human Affect," http://www.media.mit.edu/affect/AC_research/sensing.html, pp. 1-5 [Accessed 2 Oct 1998].						
	"Smart Rooms," http://vismod.www.media.mit.edu/vismod/demos/smartroom/, pp. 1-3 [Accessed 2 Oct 1998].						
	"SmartDesk Home Page," http://vismod.www.media.mit.edu/vismod/demos/smartdesk/, pp. 1-4 [Accessed 2 Oct 1998].						
	"The MIT Wearable Computing Web Page," http://wearables.www.media.mit.edu/projects/wearables/, pp. 1-3 [Accessed 2 Oct 1998].	_					
	"Wearable Computer Systems for Affective Computing," http://www.media.mit.edu/affect/AC_research/wearables.html, pp. 1-5 [Accessed 2 Oct 1998].						
	Aoki, Hisashi et al., "Realtime Personal Positioning System for a Wearable Computer," 3 rd International Symposium on Wearable Computers, San Francisco, California, October 18-19, 1999						
	Bauer et al., "A Collaborative Wearable System with Remote Sensing," University of Oregon, February 1996						
	Billinghurst, Mark and Thad Starner, "New Ways to Manage Information," IEEE, pp. 57-64, January 1999.						
	Bowskill, J. et al., "Wearable Location Mediated Telecommunications; A First Step Towards Contextual Communication," 3 rd International Symposium on Wearable Computers," San Francisco, California, October 18-19 1999						
	Dey, Anind K. et al., "The Conference Assistant: Combining Context-Awareness with Wearable Computing," 3 rd International Symposium on Wearable Computers, San Francisco, California, October 18-19, 1999						
	Finger et al., "Rapid Design and Manufacture of Wearable Computers," Communication of the ACM, Vol. 39, No. 2, February 1996, pp. 63-68						
	Golding, Andrew and Neal Lesh, "Indoor Navigation Using a Diverse Set of Cheap, Wearable Sensors," 3 rd International Symposium on Wearable Computers, San Francisco, California, October 18-19, 1999	Golding, Andrew and Neal Lesh, "Indoor Navigation Using a Diverse Set of Cheap, Wearable Sensors," 3 rd International Symposium on					
	Hull et al., "Towards Situated Computing," Hewlett-Packard Laboratories, HPL-97-66 (1997).						
	Kirsch, Dana, "The Sentic Mouse: A tool for measuring emotional valence," http://www.media.mit.edu/affect/AC_research/projects/sentic_mouse.html, pp. 1-2 [Accessed 2 Oct 1998].						
	Kortuem et al., "Context-Aware, Adaptive Wearable Computers as Remote Interfaces to 'Intelligent' Environments," University of Oregon, October 1998						
	Kortuem, Gerd, "When Cyborgs Meet: Building Communities of Cooperating Wearable Agents," 3 rd International Symposium on Wearable Computers," San Francisco, California, October 18-19, 1999						
	Lashkari, Yezdi et al., "Collaborative Interface Agents," Proccedings of AAAI '94 Conference, Seattle, Washington, August 1994						
	Lehikoinen, Juha et al., "MEX: A Distributed Software Architecture for Wearable Computers," 3 rd International Symposium on Wearable Computers, San Francisco, California, October 18-19, 1999						
	Leonhardi, Alexander et al., "Virtual Information Towers – A Metaphor for Intuitive, Location-Aware Information Access in a Mobile Environment, 3 rd International Symposium on Wearable Computers, San Francisco, California, October 18-19, 1999						
	Lunt, Teresa F. et al., "Knowledge-Based Intrusion Detection," Proceedings of the Annual Artificial Intelligence Systems in Government Conference, IEEE Comp. Soc. Press, Vol. Conf. 4, 1989, pages 102-107.						
	Maes, Pattie, "Agents That Reduce Work and Information Overload," Communications of the ACM, Vol. 37, No. 7, July 1994						
	Mann, Steve, "Smart Clothing': Wearable Multimedia Computing and 'Personal Imaging' to Restore the Technological Balance Between People and Their Environments", ACM Multimedia, November 1996, pp. 163-174						
	Metz, Cade, "MIT: Wearable PCs, Electronic Ink, and Smart Rooms," PC Magazine, pp. 192-193, June 1998.						
	Oakes, Chris, "The Truman Show Realized?," http://www.wired.com/news/news/technology/story/15745.html, pp. 1-4 [Accessed 21 Oct 1998].						
	Picard, R.W. and Healey, J., "Affective Wearables," Personal Technologies vol. 1: 231-240, MIT Media Laboratory (1997).	_					
	Rekimoto et al., "The World through the Computer: Computer Augmented Interaction with Real World Environments, " ACM, November 1995, pp. 29-36						
	Rhodes, Bradley, "WIMP Interface Considered Fatal," http://rhodes.www.media.mit.edu/people/rhodes/Papers/no-wimp.html, pp. 1-3 [Accessed 2 Oct 1998].						
	Rhodes, Bradley, J. "The Wearable Remembrance Agent: A System for Augmented Memory," Proceedings of the First International Symposium on Wearable Computers (ISWC '97), Cambridge, MA, October 13-14, 1997						

EXAMINER	_	DATE CONSIDERED	
	Tadesse Hail	2-24-04	
* EXAMINER:	Initial if reference considered, whether or not criteria conformance and not considered. Include copy of this form		

Please type a plus sign (+) inside this box

-

NOV 2 9 2002

Substitute for form 1449A/E/O

4

Sheet

INFORMATION DISCOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

of

COMPLETE IF KNOWN				
Application Number	09/878,948	Conf. No. 6459		
Filing Date	June 11, 2001			
First Named Inventor	Kenneth H. Abbott			
Group Art Unit	2173			
Examiner Name	Unknown T,	1tailu		
Attorney Docket No.	294438022US2			

Patent and Tradens

	OTHER PRIOR ART-NON PATENT LITERATURE DOCUMENTS			
EXAMINER INITIALS	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume, issue number(s), publisher, city and/or country where published.			
TH	Sato, J. et al., "Autonomous Behavior Control of Virtual Actors Based on the AIR Model," Proceedings Computer Animation, June 5, 1997.			
1.	Schneider, Jay and Jim Suruda, "Modeling Wearable Negotiation in an Opportunistic Task Oriented Domain," 3 rd International Symposium on Wearable Computers, San Francisco, California, October 18-19 1999			
	Smailagic et al., "Matching interface design with user task: Modalities of Interaction with CMU Wearable Computers," IEEE Personal Communications, February 1996, pp. 14-25			
	Smailagic, Asim et al., "MoCCA: A Mobile Communication and Computing Architecture," 3 rd International Symposium on Wearable Computers, San Francisco, California, October 18-19, 1999			
	Starner et al., "Visual Contextual Awareness in Wearable Computing," Media Lab, MIT, October 1998			
	Tan, Hong Z. and Alex Pentland, "Tactual Displays for Wearable Computing," <i>IEEE</i> , Massachusetts Institute of Technology Media Laboratory, pp. 84-88, 1997.			
\downarrow	Yang, Jie et al., "Smart Sight: A Tourist Assistant System," 3 rd International Symposium on Wearable Computers, San Francisco, California, October 18-19, 1999	on Wearable Computers, San Francisco,		

RECEIVED

DEC 0 2 2002

Technology Center 2100

EXAMINER

* EXAMINER:

Todesse Harlin

DATE CONSIDERED

2-24-04

Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).

<i>(</i>	OCT 0 6 2003	Form PTO-14	MATION DISCLOSURE EMENT BY APPLICANT of PTO-1449 (Modified)		
;	PENTA THAD CHAP	(Use several she	ets if necessary))	
	Sheet	1	of		

	COMPLETE IF KN	NOWN
Application Number	8,948	
Confirmation Number	6459	RECE
Filing Date	Jure 11, 2001	LOEIVE
First Named Inventor	Kenneth H. Abbott	OCT
Group Art Unit	2173	7 0 8 2003
Examiner Name	John W. Cabeca	#echnology o
Attorney Docket No.	294438022US2	Center 2

					U.S. PATENT DOCUMENTS			
Examiner Initials*	Cite	e	S. Patent or A	pplication Kind Code (if known)	Name of Patentee or Inventor of Cited Document	Date of Publication or Filing Date of Cited Document	Pages, Columns, Lines Where Relevant Passage Relevant Figures Appe	es or
TH	W I	6,4	05,159	B2	Bushey et al.	6/11/02		
TH		6,4	21,700	B1	Holmes et al.	7/16/02		
TH	.	6,4	46,057	B1	Vaughan	9/3/02	`	
TH		6,4	46,109	B2	Gupta	9/3/02		
10	`							
	1							
<u> </u>	-					·		
		1		<u> </u>	OREIGN PATENT DOCUMENTS	3		
Examiner Initials*	Cite	Fo Office	reign Patent o	Application Kind Co		Date of Publication or Filing Date of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Т
Illiuais	No.	Office	NOMBER	(II KITOV	or Green Bocument	Document	rigures Appear	<u> </u>
								<u> </u>
]		OTUE	- PDIOD	ADT NON DATENT LITERATURE	F DOOLIMENTS		
	T .	l			ART-NON PATENT LITERATURI nor (in CAPITAL LETTERS), title of the art), title of the item	\top
Examiner Initials*	Cite No.	(book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume issue number(s), publisher, city and/or country where published.						
T4					re is more to Context than L ive Mobile User Interfaces,"		onment Sensing	
T4					"Using a Distributed Shared ediators," 1996	Memory for Im	plementing	
_	<u> </u>	L						

EXAMINER	DATE CONSIDERED ,		
Tudisce Janen	2-24-04		
*EVAMINED: Initial if reference considered, whether or not criteria is in conformance with MDED 600. Draw line through citation if not in conformance and not			

*EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application(s).